See

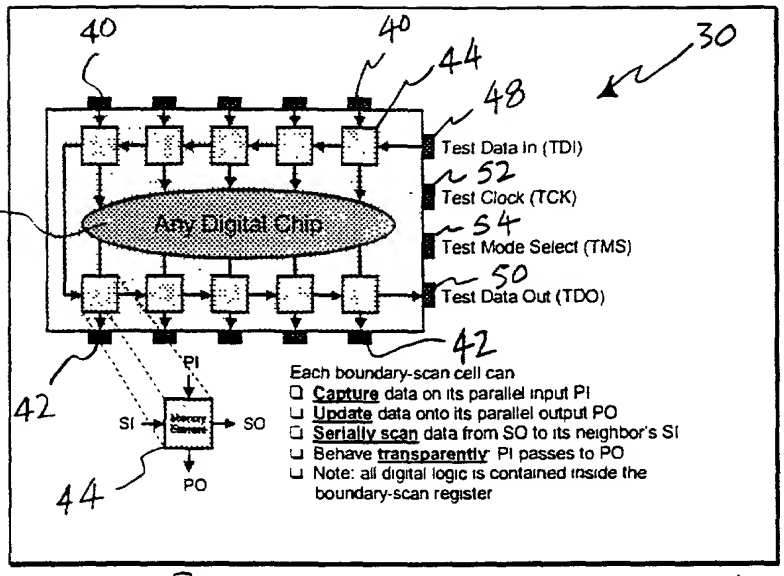


Figure 2: Principle of Boundary-Scan Architecture
(PRIOR ART)

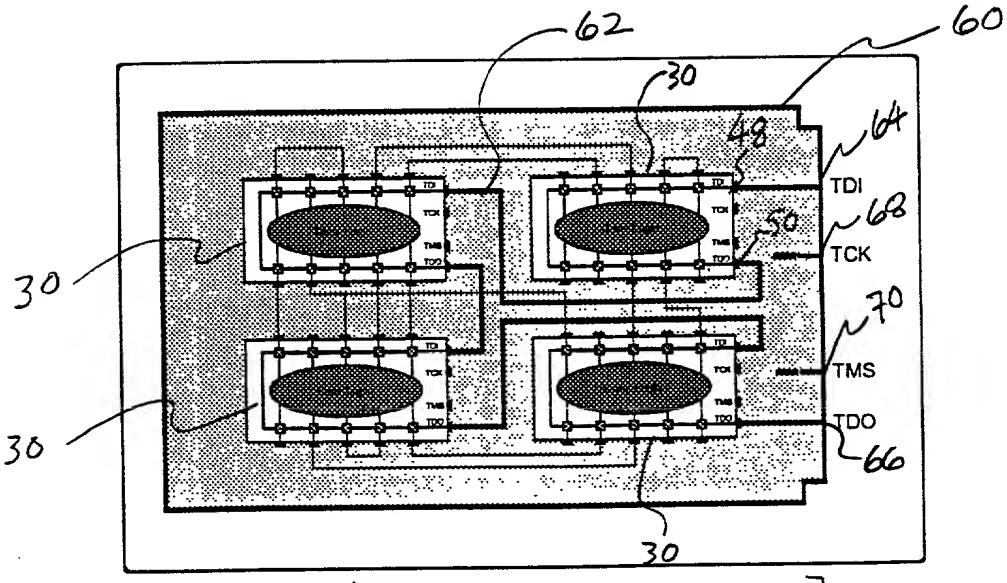


Figure ~~3~~ 2: ~~Using the Boundary-Scan Path~~
(PRIOR ART)

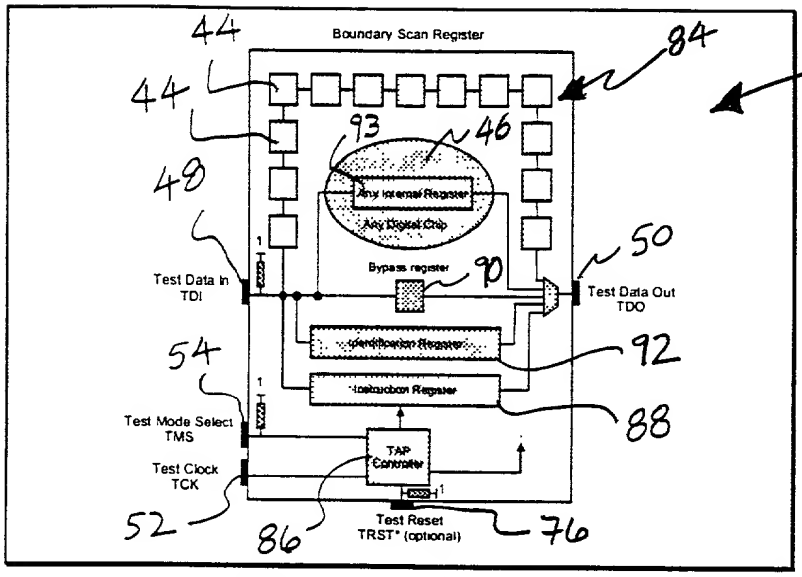


Figure 8: ~~IEEE 1149.1 Chip Architecture~~ (PRIOR ART)

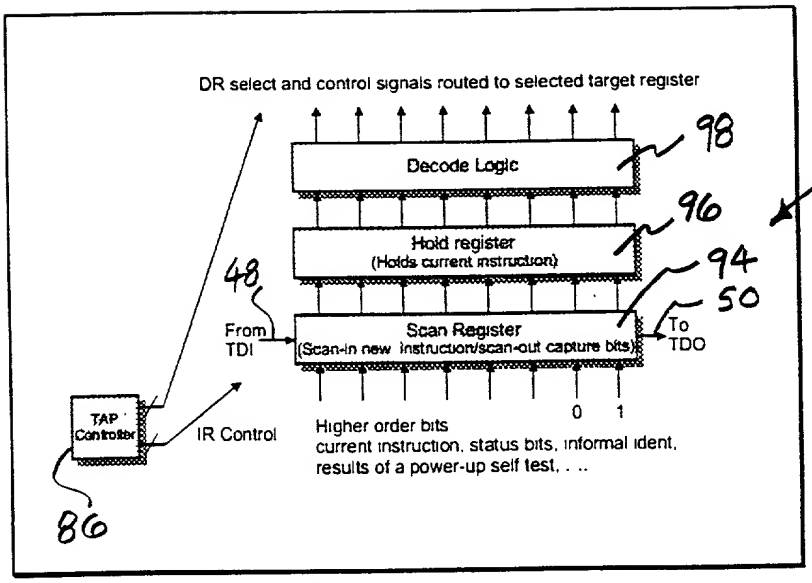


Figure 8: ~~The Instruction Register~~
4 (PRIOR ART)

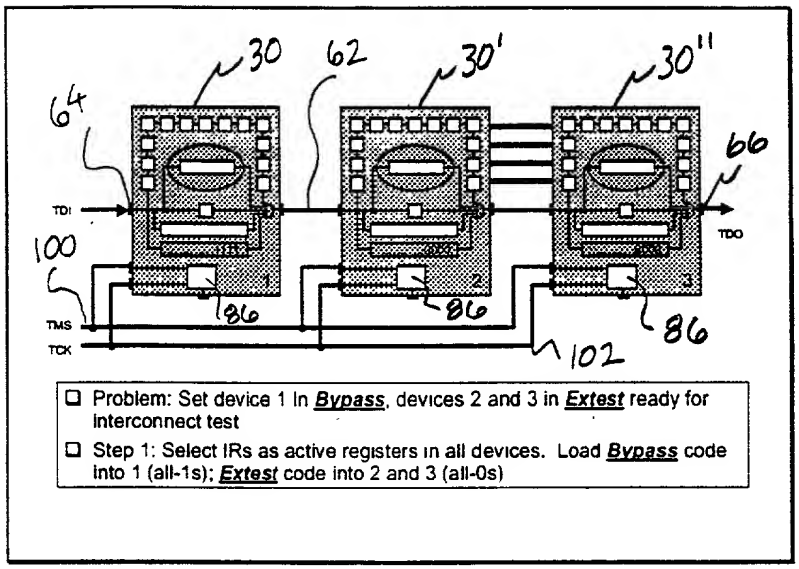


Figure ~~10~~ 5: ~~Using the Instruction Register — Step 1~~ (PRIOR ART)

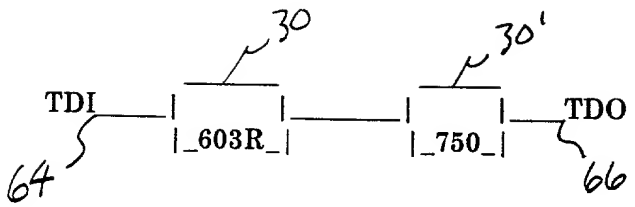


Fig. 16

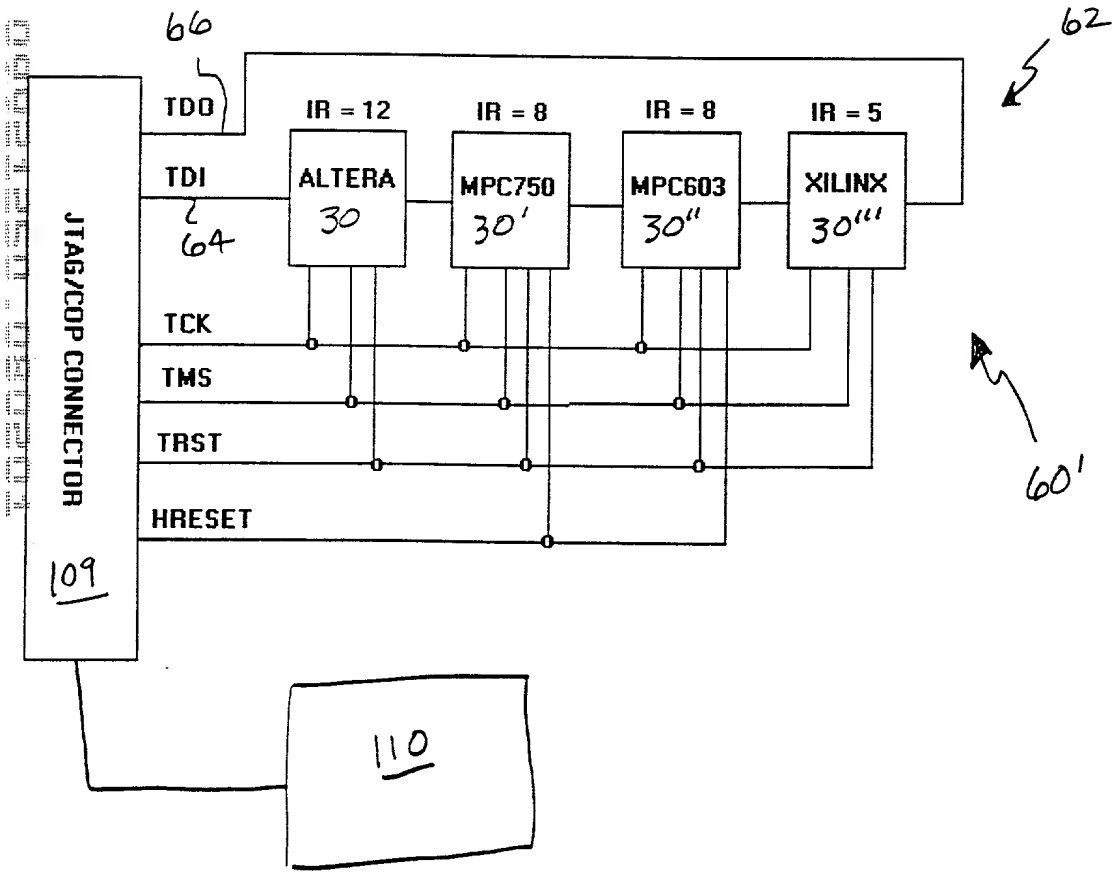


Fig. 17A

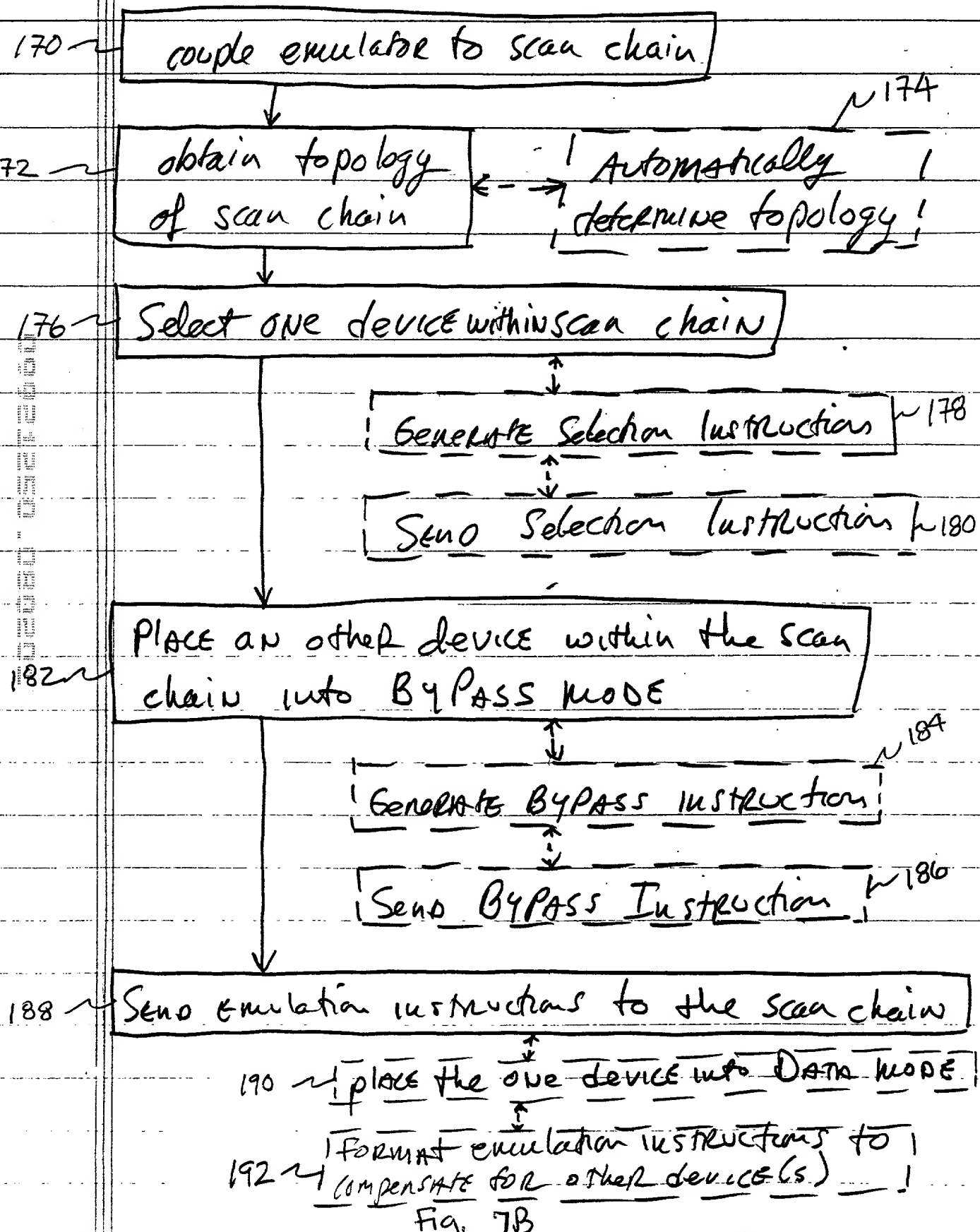

170
couple emulator to scan chain
172
obtain topology of scan chain
174
Automatically determine topology
176
Select one device within scan chain
178
Generate Selection Instructions
180
Send Selection Instructions
182
Place an other device within the scan chain into BYPASS MODE
184
Generate BYPASS instruction
186
Send BYPASS Instruction
188
Send emulation instructions to the scan chain
190
place the one device into DATA MODE
192
Format emulation instructions to compensate for other device(s)

Fig. 7B

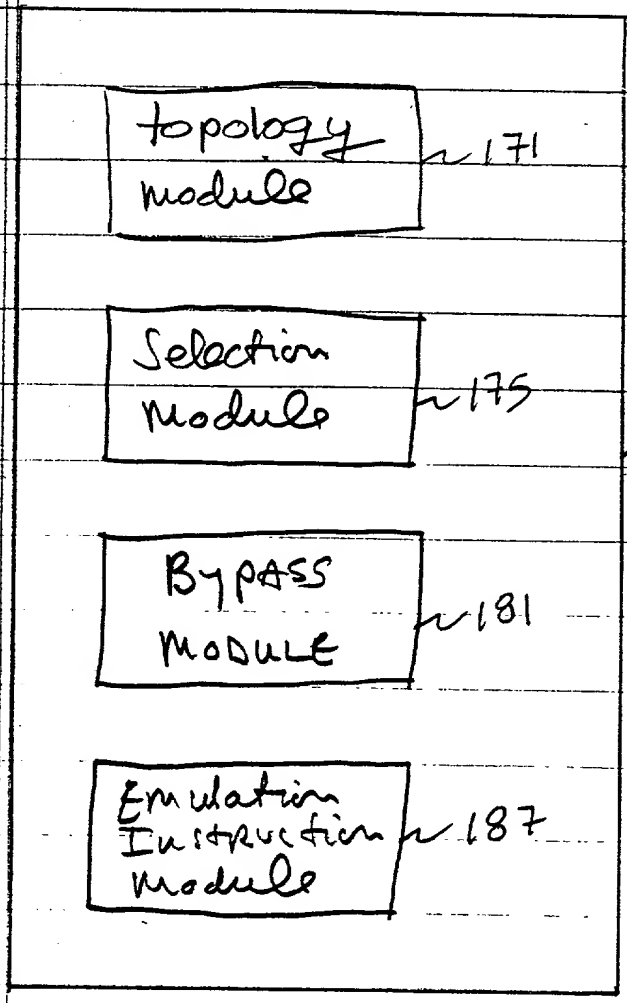

topology module
171
Selection module
175
110
Bypass module
181
Emulation Instruction module
187

Fig. 7C

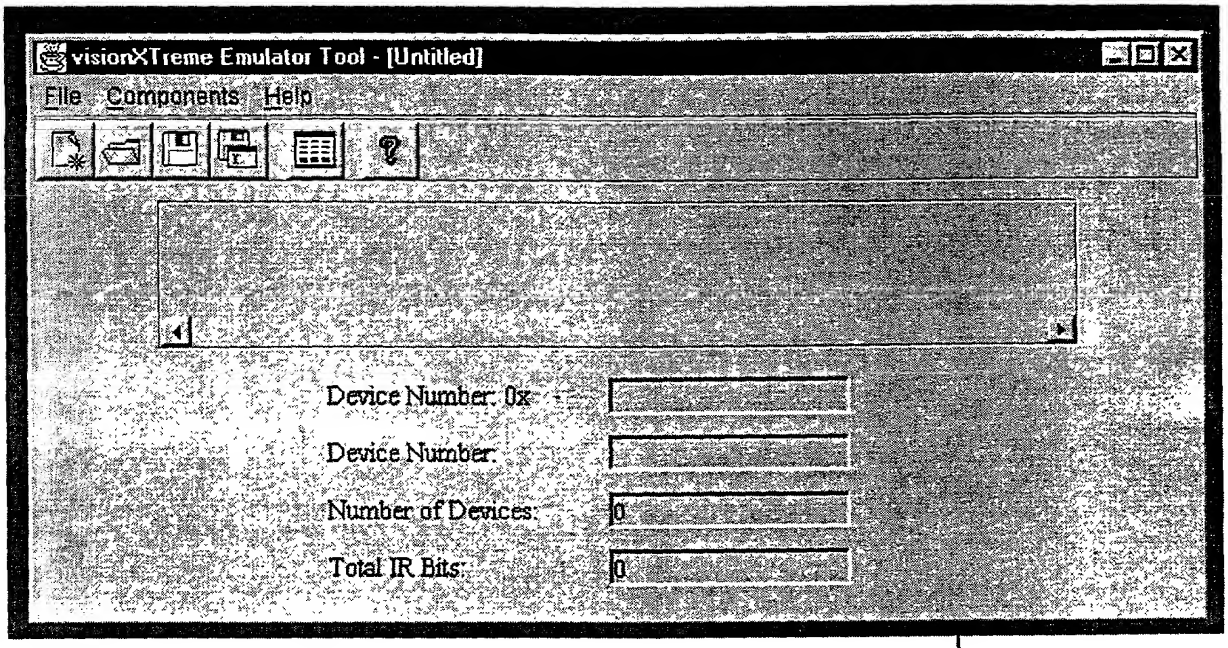
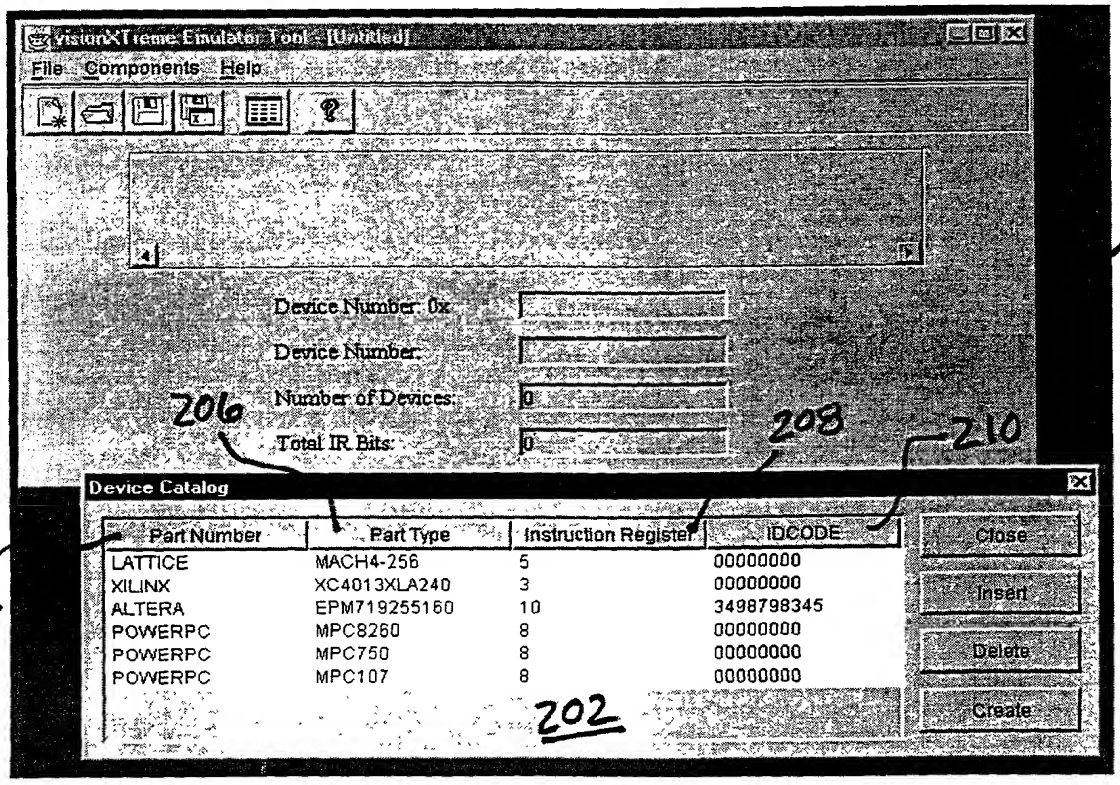


Fig. 8

200



200

Fig. #9

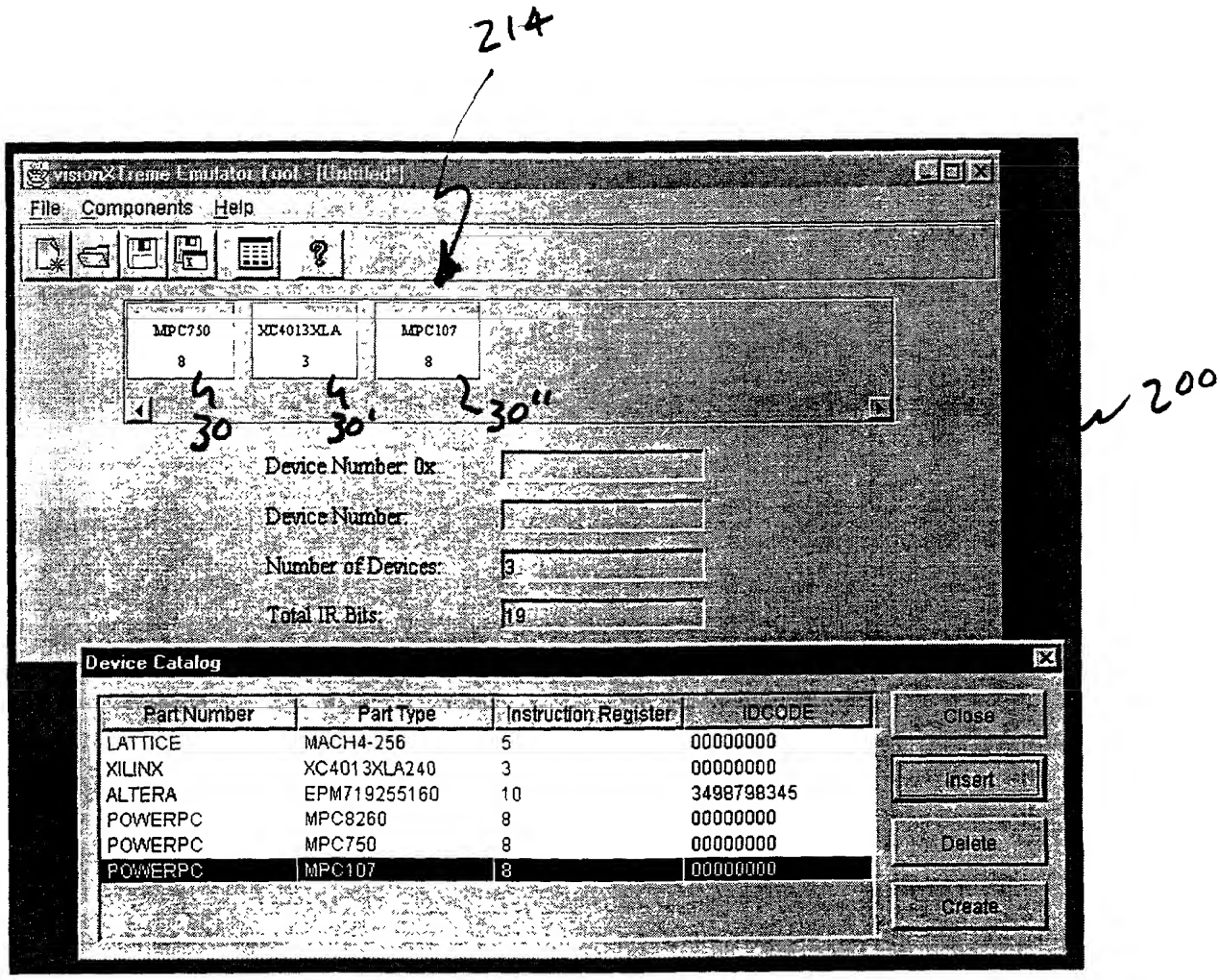

214
vision Xtreme Emulator Tool - [Untitled-1]
File Components Help
MPC750
8
XC4013XLA
3
MPC107
8
230
230'
230"
200
Device Number 0x:
Device Number:
Number of Devices:
3
Total IR Bits:
19
Device Catalog
Part Number
Part Type
Instruction Register
IDCODE
LATTICE
MACH4-256
5
00000000
XILINX
XC4013XLA240
3
00000000
ALTERA
EPM719255160
10
3498798345
POWERPC
MPC8260
8
00000000
POWERPC
MPC750
8
00000000
POWERPC
MPC107
8
00000000
Close
Insert
Delete
Create

Fig. 10

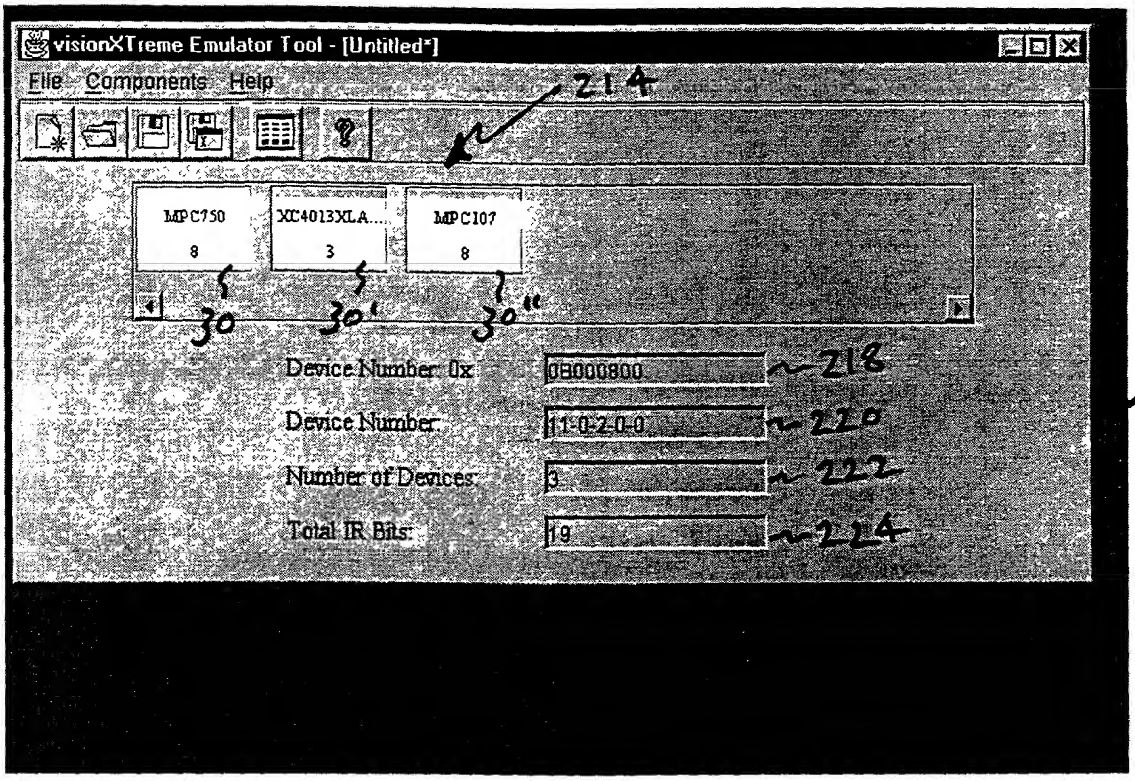
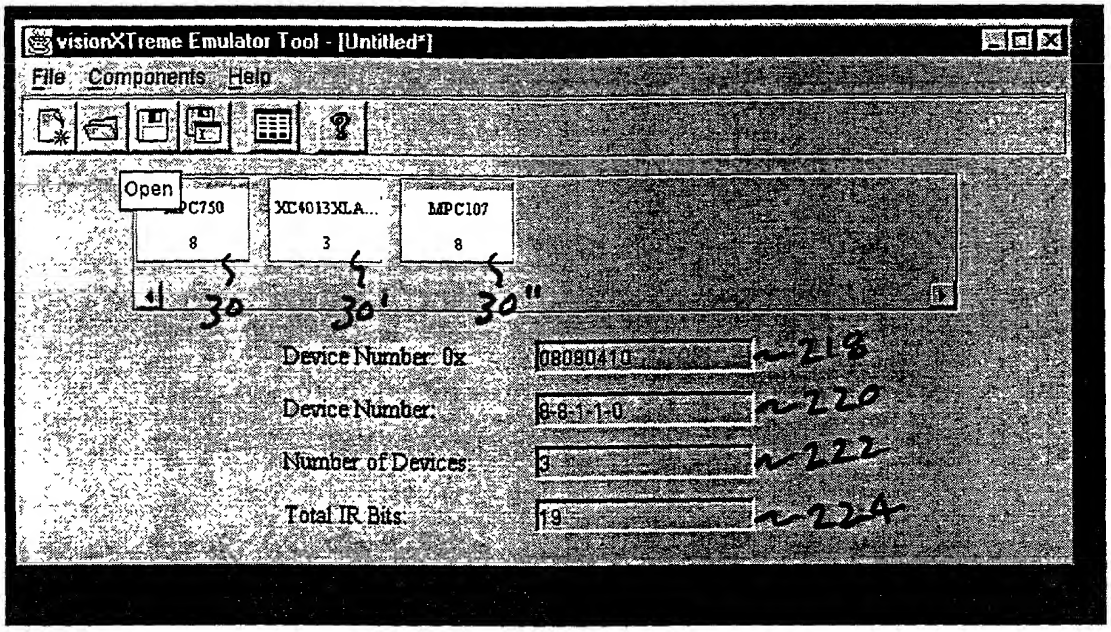

visionXTreme Emulator Tool - [Untitled*]
File Components Help
214
MPC750
8
XC4013XLA...
3
MPC107
8
30
30'
30"
Device Number 0x
08000800
218
Device Number:
11-0-2-0-0
220
Number of Devices:
3
222
Total IR Bits:
19
224
200

Fig. 11


visionXTreme Emulator Tool - [Untitled*]
File Components Help
Open
MPC750
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XC4013XLA...
3
MPC107
8
30
30'
30"
Device Number 0x
08080410
218
Device Number:
8-8-1-1-0
220
Number of Devices:
3
222
Total IR Bits:
19
224

Fig. 12